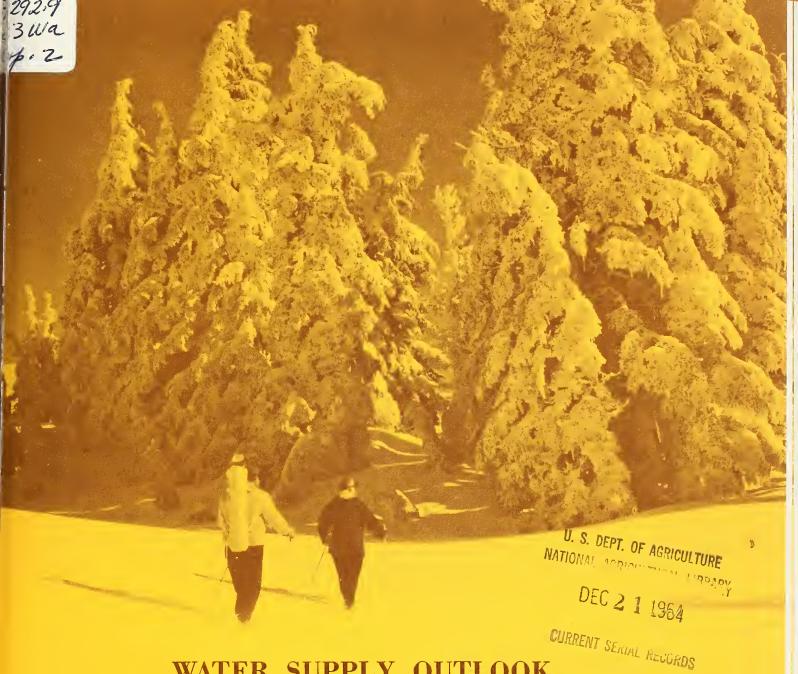
Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.





WATER SUPPLY OUTLOOK

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS for **UTAH**

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and STATE ENGINEER of UTAH

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah Agricultural Experiment Station, U.S. National Park Service, U.S. Geological Survey; and other Federal, State, and private organizations.

IIIIIIII AS OF IIIIIIIII FEB. 1, 1964

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from advance estimates of the streamflow.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, up to 1000 feet in longth, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

Streamflow forecasts are obtained by a comparison of total or maximum snow accumulation, as measured by snow water equivalent, to the subsequent spring and summer or snowmelt season runoff over a period of years. The snow water equivalent measured in selected snow courses provides most of the index to the streamflow forecast for the following season. More accurate forecasts are usually obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast procedure. Early season forecasts assume average climatic conditions through the snowmelt season.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions. Soil Conservation Service Reports may be secured from Water Supply Forecasting Unit, Soil Conservation Service, P.O. Box 2807, Portland, Oregon 97208.

PUBLISHED BY SOIL CONSERVATION SERVICE

	PUBLISHED BY SOIL	CONSERVATION SERVICE	-						
REPORTS	ISSUED	LOCATION	COOPERATING WITH						
RIVER BASINS									
WESTERN UNITED STATES	MONTHLY (FEBMAY)	PORTLAND, OREGON	ALL COOPERATORS						
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS						
STATES									
ALASKA	MONTHLY (MAR MAY)	_ PALMER. ALASKA	ALASKA S.C.D.						
AR I ZONA	SEMI-MONTHLY (JAN.15 - APR.1)	_ PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION						
Colorado and New Mexico	MONTHLY (FEBMAY)	_ FORT COLLINS, COLORADO.	— Colo, State University Colo, State Engineer N. Mex, State Engineer						
I DAHO	MONTHLY (JANJUNE)_	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER						
MONTANA	MONTHLY (JANJUNE)-	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION						
NE VADA	MONTHLY (JANMAY)	RENO, NEVADA	- NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES						
OREGON	MONTHLY (JANJUNE)_	_ Portland, Oregon	OREG. STATE UNIVERSITY OREGON STATE ENGINEER						
UTAH	MONTHLY (JANJUNE)_	_ SALT LAKE CITY, UTAH	UTAH STATE ENGINEER						
WASHINGTON	MONTHLY (FEBJUNE)_	SPOKANE, WASHINGTON	Wn. State Dept. of Conservation						
WYOMING	MONTHLY (FEBJUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER						
PUBLISHED BY OTHER AGENCIES									
REPORTS	ISSUED		AGENCY						
BRITISH COLUMBIA	Monthly (FebJune)	WATER RESOURCE FOREST AND WATE VICTORIA, B.C.,	ES SERVICE, DEPT. OF LANDS, R'RESOURCES, PARLIAMENT BLDG., CANADA						
CALIFORNIA	MONTHLY (FEBMAY)	CALIF. DEPT. OF SACRAMENTO, CAL	WATER RESOURCES, P.O. BOX 388, IF.						

WATER SUPPLY OUTLOOK

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

for

UTAH

FEBRUARY 1, 1964

Report prepared by

GREGORY L. PEARSON, Snow Survey Supervisor and

GARRY DINSDALE, Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE SNOW SURVEY SECTION 125 SOUTH STATE SALT LAKE CITY UTAH 84111

Issued by

WAYNE D. CRIDDLE

STATE ENGINEER

STATE OF UTAH

SALT LAKE CITY, UTAH

J.A. LIBBY

STATE CONSERVATIONIST

SOIL CONSERVATION SERVICE

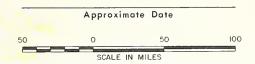
SALT LAKE CITY, UTAH

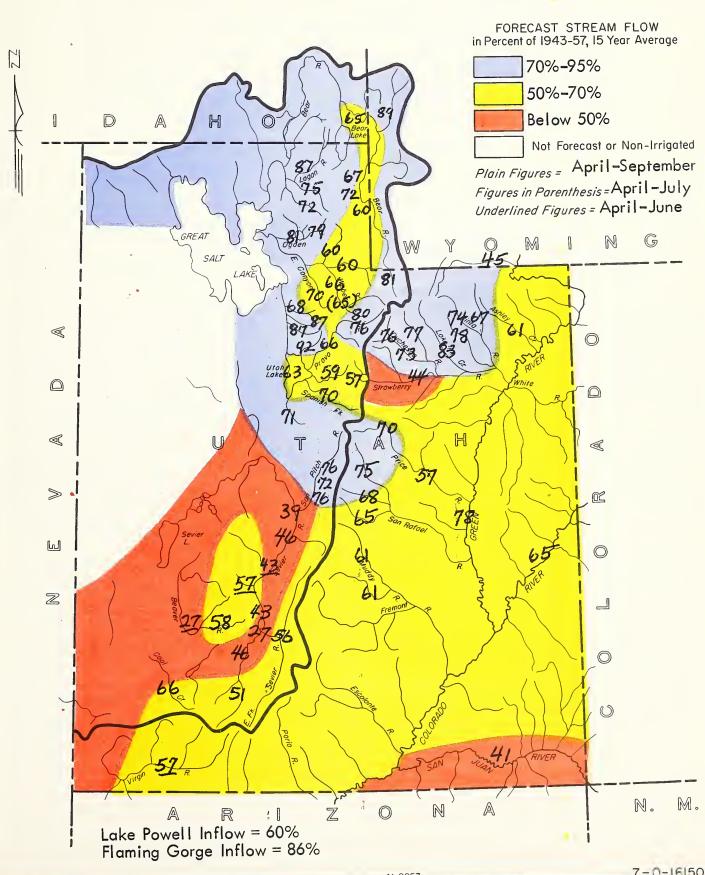
DR. D.W. THORNE
DIRECTOR
UTAH AGRICULTURAL
EXPERIMENT STATION
LOGAN, UTAH



PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS







WATER SUPPLY OUTLOOK

as of

February 6, 1964

Following the pattern which has persisted so often during the past, the water supply outlook for Utah is much better in northern sections of the state than it is in the south. Although the entire state can expect below normal runoff next summer, water users in the north can anticipate fairly adequate supplies. In the south, however, serious shortages are expected.

Above average snowpack accumulation during January improved the water supply picture for watersheds north of Utah Lake. On southern and eastern watersheds, below normal snowfall darkened the outlook. On the Logan and Ogden rivers snowfall for the month was particularly good, varying from 108% to 225%. In the Salt Lake area, on the Weber river and Utah Lake drainage the snowpack increase varied from about 95% to near 170%. In the rest of the state, snowfall was mostly between 30% and 80% of average.

Along the Sevier River, streamflow forecasts generally range between 40% and 55%. Inflow to Rockyford Reservoir on the Beaver River should be near 27%, while above Beaver the forecast is for 58%. The Virgin River, streams near Cedar City, the Paria, Escalante, Fremont and Muddy Rivers are all expected to yield from about 55% to 60% of average.

Tributary streams of the San Pitch River from Mt. Pleasant to Mayfield are forecast at 72% to 76%, while forecasts range from 65% to 75% for inflow to Scofield Reservoir on the Price River and for the San Rafael tributaries near Huntington, Castledale and Ferron.

Forecasts for some of the poorer areas in the eastern and northern sections of the state are as follows: Strawberry Reservoir inflow - 57%, Hobble Creek near Springville - 59%, Strawberry River near Duchesne - 44%, Lost Creek near Croydon and Chalk Creek near Coalville - 60%, Ashley Creek near Vernal - 61%. Inflow to Utah Lake is expected to be 63%, while its southern tributaries are forecast at near 70%.



WATER SUPPLY OUTLOOK (continued)

The highest forecast in the state is for the American Fork River with 92% anticipated. The Cottonwood Creeks near Salt Lake, the Logan River and the higher elevation streams near Tooele and Farmington also have good prospects, with about 85% to 90% of average streamflow expected.

The Ogden River, Upper Bear, Weber, Provo and Duchesne Rivers, Uinta Basin streams from the Uintah Rivers westward to the Duchesne, streams of Cache Valley (excluding the Logan River) are all expected to yield from 75% to 80%.

Although anticipated inflow to Utah Lake and Strawberry Reservoir, along with current reservoir supplies in them are considerably below average, water supplies should be adequate for most uses next summer. However, carryover storage for next year will be near the minimum.



UTAH STREAMFLOW FORECASTS a (1,000 Ac.	Ft.)				
FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	AVERAGE b	THIS YEAR AS PERCENT OF AVERAGE
BEAR RIVER SYSTEM	GREAT BASIN	١			
Bear nr Ut-Wyo. State Line Bear nr Woodruff Woodruff Crk nr Woodruff, Utah Big Crk nr Randolph, Ut. Bear nr Randolph Smith's Fork nr Border, Wyo. Bear at Harer, Idaho Little Bear nr Paradise Logan nr Logan (1) Blacksmith Fork nr Hyrum (2)	100 80 14 6.5 45 106 195 33 125 50	Apr-Sept		123 133 19.4* 9.7* 115 119 299 46 143 67	81 60 72 67 39 89 65 72 87
WEBER-OGDEN RIVERS					
Weber nr Oakley Wanship Reservoir Inflow (3) Weber nr Coalville (4) Chalk Crk at Coalville Lost Crk nr Croydon, Ut East Canyon Crk nr Morgan (5) So. Fork Ogden nr Huntsville Pineview Reservoir Inflow (6)	86 107 85 95 25 12 20 55 115	Apr-June Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-July	82 102 93	107 134 130* 143 42 19.9 28.7 70	80 80 65 66 60 70 79 81
PROVO RIVER & UTAH LAKE					

PROVO RIVER & UTAH LAKE

Strawberry Reservoir Inflow (7) Spanish Fork at Thistle Payson Creek nr Payson Hobble Crk nr Springville Provo nr Hailstone (8) Provo at Vivian Park (9) American Fork nr American Fork Utah Lake Inflow	32 30 5.7 14 90 105 33 200	Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept	25 207	56 43 8.0* 23.7* 116 * 159 36	57 70 71 59 76 66 92 63
Utah Lake Inflow	200	Apr-Sept	207	317	63

JORDAN RIVER & SALT LAKE

Little Cottonwood Crk nr SLC	34	Apr-Sept	36	39	87
Big Cottonwood nr SLC	35	Apr-Sept	33	40	87
Parley's Crk nr SLC	10	Apr-Sept	7.1	14.7	68

⁽¹⁾ Includes U.P.& L. Co. tailrace and Logan, Hyde Park & Smithfield Canal. (2) Above Utah Power & Light Company's dam. (3) Observed flow Weber River near Wanship, Utah, plus change in storage in Wanship Reservoir, plus diversion by Weber-Provo Canal. (4) Includes diversion by Weber-Provo Canal and change in storage in Wanship Reservoir. (5) Observed flow plus change in storage in East Canyon Reservoir. (6) Inflow record as computed by U.S. Bureau of Reclamation. (7) Change in storage plus diversion thru Strawberry tunnel. (8) Observed flow minus diversions thru Duchesne tunnel and Weber-Provo Canal. (9) Observed flow plus change in Storage in Deer Creek reservoir, minus diversions thru Duchesne tunnel & Weber-Provo Canal, plus diversion thru Salt Lake Aqueduct.



UTAH STREAMFLOW FORECASTS a (1,000 Ac. Ft.)

* FORECAST POINT	FORECAS THIS YE		LAST YEAR	AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
					19. AVENAGE
SEVIER RIVER					
Sevier at Hatch	18	Apr-June	16.2	35	51
Sevier nr Circleville Sevier nr Kingston	25 20 6.5 8	Apr-Sept Apr-Sept Apr-June Apr-Sept	25.0	49 43* 24.6 29.7	51 46 26 27
East Fork Sevier nr Kingston(10)	8 12	Apr-June Apr-Sept		17.2 21.6	46 56
Sevier below Piute Dam(11) Clear Crk nr Sevier(abv. Div.) Inflow	22	Apr-Sept Apr-June		51 15.9*	43 57
Kingston to Vermillion Dam Vermillion Dam to Gunnison	20 29	Apr-June Mar-June		47 63	43 46
Salina Crk at Salina(12) Sevier nr Gunnison a	1 25	Apr-June Apr-Sept	24.3	9.4* 64	11 39
SAN PITCH RIVER					
Pleasant Crk nr Mt. Pleasant Twin Crk nr Mt. Pleasant Ephraim Creek nr Ephraim	7.8 3.6 12	Apr-Sept Apr-Sept Apr-Sept	 	10.2* 5.0* 15.7	76 72 76
BEAVER RIVER					
Beaver nr Beaver Rockyford Reservoir Inflow(13)	14 17 2.5	Apr-June Apr-Sept Apr-June	10.6 14.4	22.3 29.4 9.2	63 58 27
COAL CREEK	_,,	Apr danc		<i>) • ~</i>	/
Coal Crk nr Cedar City	11	Apr-Sept		16.6	66
COLORAD	OO RIVER BA	ASIN			
GREEN RIVER TRIBUTARIES IN UTAH					
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Linwood Ashley Creek nr Vernal	18 3 6	Apr-Sept Apr-Sept		40 59	45 61

⁽¹⁰⁾ Observed flow plus change in storage in Otter Creek Reservoir. (11) Observed flow plus change in storage in Otter Crk & Piute Reservoirs. (12) Gage is below diversions near Salina. (13) Observed flow at Rockyford Dam, corrected for change in storage in Rockyford Reservoir. (14) Observed flow plus diversion through Duchesne Tunnel. (15) Observed flow plus change in storage in Moon Lake Reservoir.



FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	AVERAGE b	THIS YEAR AS PERCEN OF AVERAG
,					
DUCHESNE RIVER			v		
Duchesne at Provo River (Trail nr Hanna) Duchesne nr Tabiona (14) Rock Crk nr Mtn. Home Strawberry at Duchesne Lakefork below Moon Lake (15) Yellowstone nr Altonah Uinta nr Neola Whiterocks nr Whiterocks	32 90 84 35 65 75 75	Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept Apr-Sept	55	42* 124 109 79 78 79* 101 67	76 73 77 44 83 78 74
PRICE RIVER					
Gooseberry Crk nr Scofield Scofield Reservoir Inflow (16) Price nr Heiner (16)	9 28 40	Apr-Sept Apr-Sept Apr-S⊕pt	 	12.6 40 70	71 70 57
SAN RAFAEL RIVER					
Huntington Crk nr Huntington Cottonwood Crk nr Orangeville Ferron Crk nr Ferron	44 40 28	Apr-S⊕pt Apr-Sept Apr-Sept	100 esc 60 cos 60 esc	59 59 43*	75 68 65
MUDDY RIVER					
Muddy Creek nr Emery Ivie Creek abv. Div. nr Emery	14 1.1	Apr-Sept Apr-Sept	600 COM	23.1% 1.8%	61 61
VIRGIN RIVER					
Virgin at Virgin	25	Apr-June	18.0	44	57
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah Flaming Gorge Inflow (17) Green at Green River, Utah (17) San Juan nr Bluff, Utah (18) Lake Powell Inflow (a)	2650 1100 2750 500 4900	Apr-Sept Apr-July Apr-Sept Apr-Sept Apr-July	1 <i>555</i> 645 1835 565 3679	40 <i>5</i> 9 128 <i>5</i> 3 <i>5</i> 40 1226 8100	65 86 78 41 60

⁽a) Observed flow at Lee's Ferry plus change in storage in Flaming Gorge, Navajo, Lake Powell and Big Sandy.

GENERAL FOOTNOTES

⁽¹⁶⁾ Observed flow plus change in storage in Scofield Reservoir. (17) Observed flow plus change in storage in Flaming Gorge and Big Sandy Reservoirs. (18) Observed flow plus change in storage in Navajo Reservoir.

⁽a) Runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. The discharge data is taken from preliminary records of the U.S. Geological Survey. (b) 1943-57, 15 year period. *Partly estimated.



BASIN or STREAM	RESERVOIR	USABLE	MEASURED (FIRST OF MONTH)			
		CAPACITY	THIS YEAR	LAST YEAR	AVERAGE a	

GREAT BASIN

Bear River	Bear Lake Woodruff Narrows	1421.0 26.5	709.3 11.9	721.3	806.4
<u>Little Bear</u>	Hyrum Porcupine	15.3 11.3	13.4	9.2 2.1c	10.7
0gden	Pineview	110.0	53.6	55.6	7.0
<u>Weber</u>	Rockport Echo East Canyon	59.1 73.9 28.7	25.9 34.7 18.9	33.2 28.4 17.0	27.0 15.2
Provo	Deer Creek	149.7	99.0	123.0	83.1
Spanish Fork	Strawberry	270.0	53.1	48.7	131.9
Utah Lake	Utah Lake (b)	1149.0	261.9	244.5	568.2
Sevier River	Otter Creek Piute Sevier Bridge	52.5 74.0 236.0	13.6 16.9 36.6	17.4 25.0 44.1	27.5 38.0 134.6
Beaver River	Rocky Ford	23.3	5.9	6.9	13.6
	COLORADO F	RIVER DRAINAG	E		
Ashley Creek	Steinaker	33.3	8.3		
Lake Fork	Moon Lake	35.8	19.0	14.6	12.4
Price River	Scofield	65.8	10.0	17.1	15.2
Green	Flaming Gorge	3789.0*	893.2	53.6*	
San Juan	Navajo	1709.0*	332.0	77.3*	
Colorado	Lake Powell	27,000.0%	3,113.0	34.5*	

All data contained in this table supplied by the U.S. Geological Survey.



RIVER BASIN OF TRIBUTARY WATERSHED

NO. of COURSES AVERAGE

NO. of COURSES LAST YEAR AVERAGE*

NO. of COURSES AVERAGE

LAST YEAR AVERAGE*

G	R	Ē,	Δ~	r	B,	Δ	9	T	N
u		- 4	1		$\boldsymbol{\omega}$	1	J	_	1.4

Smith's Fork - Bear River (Wyo)	4	199	94
Mink Creek - Cub River	3	211	87
Logan River	3	285	89
Blacksmith Fork	5	231	78
Malad River (Idaho)	1	475	121
Ogden River	5	227	86
Weber River above Echo Dam	8	176	70
Chalk Creek - Coalville	2	1 34	75
East Canyon Creek	3	201	77
Farmington Creek	2	180	82
Salt Lake Area	4	194	77
Tooele Area	1	198	100
American Fork River	2	689	61
Provo River above Vivian Park	7	148	62
Strawberry Reservoir Valley	3	265	50
Spanish Fork River	4	226	74
Mt. Nebo Area	2	172	80
Sevier River above Panguitch	3	499	42
East Fork Sevier River	4	178	47
Salina Creek	2	112	80
San Pitch River	4	208	66
Beaver River	3	242	40
Coal Creek - Cedar City	3	316	48

COLORADO RIVER BASIN

Duchesne-Strawberry Rivers	5	134	48
Lakefork River	3	975	44
Whiterocks-Uintah Rivers	3	79	30
Price River	5	200	48
San Rafael Tributaries	6	167	45
Escalante River	3	200	56
Virgin River	4	429	42



GREAT BASIN DRAINAGE

UPPER BEAR RIVER (Above Harer, Idaho)							
Big Park CCC Camp x Monte Cristo R.S. Piney LaBarge x Salt River Summit x Trial Lake x	10G11 10G7 11H12 10G10 10G8 10J8	8700 7500 8960 8820 7900 9800	1/31 1/30 1/29 1/27 1/30 1/30	48 36 46 46 45 42	12.6 8.0 11.5 11.4 10.3 10.4	4.7 5.0 7.4 6.2 5.6 6.5	8.3 17.0* 13.0* 10.5* 17.1*
LOWER BEAR RIVER (Below Harer, Idaho)							
Beaver Crk-Skunk Crk.x Christensen Ranch Cub River R.S. Dry Basin A Dry Bread Pond x Dry Creek Flat Emigrant Summit Garden City Summit Horseshoe Basin A Klondike Narrows Liberty Spring Monte Cristo R.S. Oxford Mountain Steep Hollow #1 Steep Hollow #2 Strawberry Creek Strawberry Mink Divide Tony Grove R.S. Willow Flat	11H14 11G11 11G12 11G13 11H13 12G4 11H6 11H7 11G14 11H1 11G15 11H12 12G3 11H27 11H28 11G9 11G10 11H3 11G4	7150 5600 5400 7900 8230 6350 7700 7600 8000 7400 8420 8960 6800 7700 5800 6250 6100	1/29 1/28 1/27 2/2 1/29 2/3 1/30 1/28 2/2 1/28 2/2 1/29 1/28 1/28 1/28 1/28 1/28	27 26 33 57 35 48 43 50 48 69 46 No Report 73 58 33 46 33	6.2 5.9 6.6 16.0 8.7 5.7 13.5 10.6 14.0 11.2 19.4 11.5 19.3 15.1 7.3 12.0 7.4 10.4	2.4 2.6 3.2 4.8 1.2 5.4 4.2 3.8 7.4 1.5 7.2 5.7 3.4 7.1 2.4	8.5* 6.4* 5.9* 12.3* 4.7* 12.5* 17.0* 6.3* 7.7* 13.6 8.0* 13.5*
OGDEN RIVER Beaver Crk-Skunk Crk.	11H14	71 <i>5</i> 0	1/29	27	6.2	2.4	8.5*
Ben Lomond(lower) Ben Lomond Peak Ben Lomond Trail Cutler Creek Dry Bread Pond Monte Cristo R. S. Sagebrush Flat	11H9 11H8 11H30 11H29 11H13 11H12	5850 8000 6000 6780 8230 8960 6300	1/30 1/30 1/30 1/30 1/29 1/29 1/29	45 71 49 64 35 46 24	11.4 19.5 11.9 16.6 8.7 11.5 5.4	3.5 9.1 3.4 6.7 4.8 7.4 1.2	9.0* 21.0* 12.3* 17.0* 4.2*



,							
WEBER RIVER							
Beaver Creek R. S. Chalk Creek #2 Chalk Creek #3 Farmington Canyon(lower) Farmington Canyon(upper) Lamb's Canyon x Parley's Canyon Smt. Silver Lake x Smith & Morehouse Trial Lake x	11 J 24 11 J 2 11 J 3 11 J 1 2 11 J 1 1 11 J 1 4 11 J 1 5 11 J 1 6 11 J 4 10 J 8	7500 8000 7500 6950 8000 6600 7500 8725 7600 9800	1/30 1/27 1/27 1/31 1/31 1/31 2/1 1/30 1/29 1/30	18 29 21 45 49 32 37 46 24 42	3.7 6.2 4.3 12.1 13.1 7.0 10.2 12.0 5.5 10.4	2.1 3.8 2.1 5.9 8.4 4.0 4.6 5.8 5.7 6.5	6.2* 9.5* 5.1* 14.4* 16.4* 10.0* 11.5* 16.8 8.6* 17.1*
Camp Altamont Clear Creek Ridge #2 Clear Creek Ridge #3 Daniels-Strawberry Smt. East Portal Payson R. S. Rock Bridge Soapstone R. S. South Fork R. S. Strawberry Divide Timpanogos Cave Camp Timpanogos Divide Trial Lake JORDAN RIVER & TOOELE VAL	11J20 11K22 11K23 11J23 11J7 11K1 11K2 11J25 11J19 11J8 11J18 11J18 11J21 10J8	7300 8000 6600 8000 7560 8050 6750 7800 6100 8000 5500 8140 9800	1/30 1/29 1/29 1/31 1/29 1/31 1/30 1/30 1/30 1/30 1/30	30 29 17 23 18 31 26 23 20 37 17 40 42	7.2 6.3 3.3 5.1 3.8 7.8 6.8 4.8 5.4 8.2 3.9 12.8 10.4	0.6 3.3 0.9 7.6 1.2 4.6 3.9 6.5 0.4 7.2 6.5	12.9 8.5* 5.2* 10.5 8.7 11.0* 7.7* 8.8* 5.9* 14.5 3.6* 19.4 17.1*
Lamb's Canyon Middle Canyon Mill D South Fork Parley's Canyon Smt. x Silver Lake UPPER SEVIER RIVER (South of Richfield, Utah	11J14 12J3 11J10 11J15 11J16	6600 7000 7400 7500 8725	1/31 1/29 1/30 2/1 1/30	32 31 41 37 46	7.0 8.3 9.7 10.2 12.0	4.0 4.2 5.6 4.6 5.8	10.0* 8.3* 12.5* 11.5* 16.8
Big Flat x Bryce Canyon Duck Creek R. S. Harris Flat R.S. Long Valley Junction x Midway Valley Widtsoe-Escalante Smt. Widtsoe-Escalante #2 Widtsoe-Escalante #3	12L7 12M8 12M4 12M5 12M6 12M2 11M1 11M2	10290 8000 8560 7700 7500 9800 9500 9500	1/28 1/29 1/30 1/30 1/30 1/30 1/29 1/29	23 8 16 13 9 34 12 15	5.0 1.0 3.0 2.2 1.4 8.3 2.9 3.8 4.2	2.9 0.9 0.5 0.4 T 2.4 1.1 1.8 3.4	11.3* 3.3* 9.5* 6.0* 4.2* 14.5* 5.5* 6.6*

(a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.

CURRENT INFORMATION

SNOW DEPTH

(Inches)

DATE OF

SURVEY

ELEVATION

WATER CONTENT (Inches) PAST RECORD

WATER CONTENT (Inches)

LAST YEAR

AVERAGE a

SNOW

DRAINAGE BASIN and SNOW COURSE

NAME



			001	1		FAST RE	CORD
DRAINAGE BASIN and SNOW	COURSE	Tel eller	DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONTE	
NAME	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE a
LOWER SEVIER RIVER (Including San Pitch Rive	<u>r)</u>						
Farnsworth Lake G.B.R.C. Headquarters G.B.R.C. Meadows Gooseberry R.S. Gooseberry Reservoir x Mammoth R.SCotnwd Crk. Shingle Mill	11L1 11K11 11K10 11L2 11K4 11K3	9900 8700 10000 8400 8700 8800 6200	1/29 1/30 1/30 1/29 1/28 1/28 1/30	28 24 36 23 28 31 20	7.9 6.3 9.3 6.2 7.8 8.0 4.9	8.0 4.6 7.6 5.0 1.6 9.4 2.7	11.3* 9.1* 15.6* 7.0* 11.5* 12.1
BEAVER RIVER							
Big Flat Merchant's Valley Otter Lake	12L7 12L9 12L8	10290 8200 9300	1/28 1/28 1/28	23 10 24	5.0 1.6 4.7	2.9 0.5 2.0	11.3* 6.5* 9.2*
COAL CREEK							
Midway Valley x Urie Flat Webster Flat	12M2 12M10 12M3	9800 8450 9200	1/30 1/30 1/30	3 ⁴ 10 23	8.3 2.3 4.6	2.4 0.6 2.1	14.5* 5.0* 11.2*
UPPER GREEN RIVER IN UTAH (Tributaries above Flamin			VER DRAI	NAGE			
Buck Pasture A Henry's Fork A Steel Creek Park A	10J23 10J24 10J20	9700 10200 9900	De1	ayed Re ayed Re ayed Re	port	5.0A N.R. 2.4A	
DUCHESNE RIVER							
Ashley Twin Lakes A Atwood Basin A Chepeta-Whiterocks Lakes A Daniels-Strawberry Smt.x East Portal x Five Point Lake A Indian Canyon Julius Park Lakefork Basin A Lakefork Mountain Lakefork Mountain #2 Lakefork Mountain #3	9J11 10J27 19J9 11J23 11J7 10J26 10K1 9J6 10J25 10J10 10J11	10500 10250 10300 8000 7560 11000 9100 9800 11100 10500 8900 8100	Del 1/31 1/29 Del 1/30 1/30	ayed Re 13 21 ayed Re 23	port 5.1 3.8 port 2.7 4.2 port 5.2	3.8A 2.9A 4.1A 7.6 1.2 6.5A 5.3 4.5 N.R. 0.4 0.0	 10.5 8.7 8.6* 8.1* 6.0* 4.8*

CURRENT INFORMATION

PAST RECORD

SNOW



CURRENT

SNOW DEPTH

(Inches)

DATE OF

SURVEY

INFORMATION

WATER

CONTENT

(Inches)

PAST RECORD

WATER CONTENT (Inches)

LAST YEAR

AVERAGE a

SNOW

Webster Flat

DRAINAGE BASIN and SNOW

NAME

COURSE

ELEVATION

12M3

9200

1/30

23

4.6

2.1

11.2*

⁽a) 1943-57, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1943-57, 15 year average.



PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION

		READING	PRECIPITATION	AVERAGE		AVERAGE	AVERAGE
9				a		а	
	GREA	T BASIN D	RAINAGE				
UPPER BEAR RIVER (Above Harer, Idaho)							
Chalk Creek #2* Chalk Creek #3* Monte Cristo #2 Salt River Summit Trial Lake*	8000 7500 8960 7900 9800	1/27 1/27 1/29 1/30 1/30	 4.60 4.51	3.60 4.75	9.26 7.41 13.08 11.50 9.26	11.76 12.90 16.15	79 89 57
LOWER BEAR RIVER (Below Harer, Idaho)							
Dry Bread Pond Garden City Summit Klondike Narrows Monte Cristo #2 Tony Grove R.S.(SCS) Willow Flat	8230 7600 7400 8960 6250 6100	1/29 1/28 1/28 1/29 1/28 1/27	4.59 6.54 4.30	3.30 4.10	10.83 11.41 14.39 13.08 9.37 11.40	15.50 12.40 15.45 16.29	70 92 93 70
OGDEN RIVER							
Ben Lomond(lower) Ben Lomond Trail Causey Dam Dry Bread Pond Monte Cristo #2* Sagebrush Flat	5850 6000 5500 8230 8960 6300	1/30 1/30 1/29 1/29 1/29 1/29	6.99 7.15 3.25 	4.75	16.38 17.01 10.83 13.08 7.93	17.80 15.50 10.15	92 70 78
WEBER RIVER							
Chalk Creek #2 Chalk Creek #3 Farmington Guard Sta.(1) Farmington Rice (1) Parley's Canyon Smt. Silver Lake(Brighton)*(2) Smith & Morehouse Trial Lake*	8000 7500 7500 7000 7500 8725 7600 9800	1/27 1/27 1/31 1/31 2/1 1/31 1/29 1/30	 6.68 6.52 5.55 6.73 3.66 4.51	5.43a 5.00a 3.33 5.60a 3.20 4.75	9.26 7.41 14.88 14.51 11.34 14.20 9.41 9.26	-11.76 20.57a 18.52a 13.87 19.57a 12.20 16.15	79 72 78 82 73 77 57

CURRENT INFORMATION

MONTH'S PRECIPITATION 1943 — 57 AVERAGE

DATE OF READING

ELEVATION

FROM APPROX. IO/I TO DATE

AVERAGE

THIS YEAR

1943 - 57 | PERCENT OF

AVERAGE

⁽¹⁾ Data supplied by U.S. Forest Service

⁽²⁾ Data supplied by U.S. Weather Bureau

^{*} Adjacent Drainage

a All values estimated except those where symbol "a" occurs



P	RECIP	ITATION	DATA	(Inches)
---	-------	---------	------	----------

DRAINAGE BASIN		CURRE	ENT INFORMAT	TION	FROM A	PPROX. IO/I T		
AND RAIN GAGE LOCATION	ELEVATION	DATE OF READING	MONTH'S PRECIPITATION	1943 — 57 AVERAGE	THIS YEAR	1943 — 57 AVERAGE	PERCENT OF AVERAGE	
2				a		а		
PROVO RIVER & UTAH LAKE								
Clear Creek Ridge #2 Daniels-Strawberry Smt. East Portal Ridge Payson R. S. Soapstone R. S. Strawberry ResE. Portal Timpanogos Divide	8000 8000 7800 8050 7800 7606 8200 9800	1/29 1/31 1/29 1/31 1/30 1/29 1/30 1/30	3.54 4.25 5.50 3.75 1.75 3.75 4.51	 2.05 3.40 3.05 1.30 5.82a 4.75	6.95 7.97 8.54 10.44 10.09 5.54 14.29 9.26	10.90 11.10 12.50 11.75 6.65 18.87a 16.15	64 72 84 86 83 76 57	
JORDAN RIVER & TOOELE VALLE	Y							
Mt. Dell Dam (2) Parley's Canyon Smt.	7000 5500 7500 8725	1/29 1/31 2/1 1/31	4.08 3.26 5.55 6.73	3.33	7.60	11.80 9.15a 13.87 19.57a	94 83 82 73	
SEVIER RIVER ABOVE RICHFIEL	D							
Duck Creek R.S. Webster Flat* Widtsoe-Escalante #3	10290 8560 9200 9500 7600	1/28 1/30 1/30 1/29 1/29	3.00 1.96 1.57 0.43	 4.40 4.50 2.45 0.87a	5.97 7.23 7.25 5.42 2.05	10.98 10.75 11.20 8.23 3.55a	54 67 65 66 58	
SEVIER RIVER BELOW RICHFIEL (Including San Pitch River)								
G.B.R.C. Headquarters (1) G.B.R.C. Meadows (1) G.B.R.C. Oaks (1) Gooseberry R. S. (1) Gooseberry Reservoir * Mammoth R. S. #2*	8700 10000 7655 7800	1/29 1/30 1/30 1/30 1/29 1/28 1/28 1/30	3.58 2.13 3.15 1.27 2.14 2.77 3.08 1.32	4.20 3.49a 3.36a 2.16a 2.51 3.80 3.80	7.95 9.80 5.43 5.95	11.50 11.76a 12.30a 8.24a 8.10 11.60	73 68 80 66 73 71 76	
BEAVER RIVER								
		1/31 1/28	0.80	2.26a 	3.15 5.97	6.48a 10.98	49 54	
COAL CREEK								
Webster Flat *	9200	1/30	1.96	4.50	7.25	11.20	65	
(1) Data supplied (2) Data supplied								

⁽²⁾ Data supplied by U. S. Weather Bureau

* Adjacent Drainage
a All values estimated except those where symbol "a" occurs



PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION		CURRE	NT INFORMAT	rion	FROM API	PROX. 10/1 T	O DATE
	ELEVATION	DATE OF READING	MONTH'S PRECIPITATION	1943 — 57 AVERAGE	THIS YEAR	1943 — 57 AVERAGE	PERCENT OF AVERAGE

а

a

COLORADO RIVER DRAINAGE

DUCHESNE	RIVER

DUCHESNE RIVER							
Daniels-Strawberry Smt.* East Portal Ridge* Indian Canyon Julius Park Lakefork Mountain Moon Lake Paradise Park Soapstone R. S. * Strawberry ResE.Portal* Trial Lake*	8000 7800 9100 9800 10500 8150 10100 7800 7606 9800	1/31 1/29 1/30 1/30 1/29 1/31 1/30 1/30 1/29 1/30	3.54 4.25 1.18 1.20 0.60 1.55 3.75 1.75 4.51	2.05 3.00 2.03a 3.25 3.05 1.30 4.75	7.97 8.54 3.68 4.32 6.20 3.00 5.15 10.09 5.54 9.26	11.10 10.50 9.85 6.71a 11.00 11.75 6.65 16.15	72 41 63 45 47 86 83 57
PRICE RIVER							
Clear Creek Ridge #2* Gooseberry Reservoir Indian Canyon Mammoth R. S. #2 Mud Creek	8000 8700 9100 8600 8300	1/29 1/28 1/30 1/28 1/31	2.77 1.18 3.08 2.30	3.80 3.80 3.65	6.95 8.18 3.68 8.73 5.45	10.90 11.60 11.55 11.00	64 71 76 50
SAN RAFAEL RIVER							
Buck Flat G.B.R.C. Meadows* (1) Gooseberry Reservoir * Red Pine Ridge	9400 10000 8700 9400	1/30 1/30 1/28 1/29	3.15 2.77	3.36a 3.80	5.85 9.80 8.18 6.75	10.60 12.30a 11.60 12.87	55 80 71 52
FREMONT & ESCALANTE RIVERS	•						
Farnsworth Lake * Widtsoe-Escalante #3	9900 9500	1/29 1/29	3.58 1.57	4.20 2.45	8.38 5.42	11.50 8.23	73 66
VIRGIN RIVER							
Duck Creek R. S. Webster Flat	8560 9200	1/30 1/30	3.00 1.96	4.40 4.50	7.23 7.25	10.75 11.20	67 65

⁽¹⁾ Data supplied by U. S. Forest Service

⁽²⁾ Data supplied by U. S. Weather Bureau

^{*} Adjacent Drainage

a All values estimated except those where symbol "a" occurs



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

- U.S. Department of Agriculture Soil Conservation Service Forest Service
- U.S. Department of Commerce Weather Bureau
- U.S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service

STATE AGENCIES

Utah Agricultural Experiment Station
Utah Fish and Game Department
Utah State Engineer
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner
Utah Water and Power Board

MUNICIPALITIES

Manti Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE 222 S.W. TEMPLE SALT LAKE CITY. UTAH

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

FEDERAL - STATE - PRIVATE

COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"